WE CLAIM:

1. A method for visualization of data knowledge on a computer, comprising the steps of:

performing data mining of data to generate rules;

representing said rules as objects in a three-dimensional space; and

permitting using navigation and zooming in said three-dimensional space.

2. A method as claimed in claim 1, wherein said step of representing represents all rules generated during said data mining.

3. A method as claimed in claim 1, wherein said step of representing represents less than all rules generated during said data mining.

4. A method as claimed in claim 1, wherein said rules are represented as spheres, and said spheres are displayed in spiral arrangement.

5. A method as claimed in claim 4, wherein said spheres have a size representing a relative number of examples covered by the corresponding rule.

6. A method as claimed in claim 1, further comprising the step:

displaying information on a rule upon selection of a three-dimensional object corresponding to the rule.

7. A method as claimed in claim 6, wherein said displaying step displays an index of the corresponding rule.

8. A method for cleansing noise from data, comprising the steps of:

acquisition of a concept by a concept learner;

evaluation of learned class descriptions and detection of concept components;

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optimization of class descriptions according to predetermined criteria of class description evaluation; and

formulation of a filter for modified concept descriptions and filtration of training data.

9. A method as claimed in claim 8; further comprising the steps of:

applying a closed loop learning approach;

running a learning program at least two times including a first run to acquire model descriptions and a second run to acquire detailed descriptions; and

using filtered training data on said second run.